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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/516,296	12/08/2004	Kenji Adachi	040644	5591	
	7590		EXAMINER		
1420 K Street, N.W.			LEE, CYNTHIA K		
Suite 400 WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER	
			1795		
			MAIL DATE	DELIVERY MODE	
			05/23/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
Office Antique Comments	10/516,296	ADACHI ET AL.	ADACHI ET AL.				
Office Action Summary	Examiner	Art Unit					
	CYNTHIA LEE	1795					
The MAILING DATE of this communica Period for Reply	tion appears on the cover sheet w	ith the correspondence ad	ldress				
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAI - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communi - If NO period for reply is specified above, the maximum statut - Failure to reply within the set or extended period for reply will Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS COMMUNI 37 CFR 1.136(a). In no event, however, may a cation. ory period will apply and will expire SIX (6) MON , by statute, cause the application to become Af	CATION. reply be timely filed NTHS from the mailing date of this of BANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed	on 09 June 2006						
)⊠ This action is non-final.						
, <u> </u>	· —	ters, prosecution as to the	e merits is				
·— · · ·) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-29</u> is/are pending in the app	olication						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.	· · · · · · · · · · · · · · · · · · ·						
7) Claim(s) is/are objected to.							
8) Claim(s) 1-29 are subject to restriction	and/or election requirement.						
· · · · · · · · · · · · · · · · · · ·	and, or orderen requirement						
Application Papers	_						
9) ☐ The specification is objected to by the E							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to b	y the Examiner. Note the attached	d Office Action or form PT	ГО-152.				
Priority under 35 U.S.C. § 119							
	ocuments have been received. Ocuments have been received in A Ocuments have been the priority documents have been Ocuments have been Ocuments Have been Ocuments Have been Ocuments Have been	Application No n received in this National	Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	948) Paper No(Summary (PTO-413) s)/Mail Date Informal Patent Application 					

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-14, drawn to molten salt.

Group II, claim(s) 15-19, drawn to a process of making molten salt.

Group III, claim(s) 20, 23, 24, drawn to a solution comprising molten salt.

Group IV, claim(s) 21, 22, drawn to a battery.

Group V, claim(s) 25, 26, drawn to a capacitor.

Group VI, claim(s) 27, drawn to a solar cell.

Group VII, claim(s) 28 and 29, drawn to a fuel cell.

The inventions listed as Groups I-VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The common technical feature common to all groups "a room-temperature molten salt comprising a mixture of two or more organic salts with different anionic moieties and different organic cationic moieties, the room-temperature molten salt having a solidifying point lower than that of any of the individual organic salts" is well-known in the art, and thus lacks unity. Evidence of lack of unity is found in JP 2002-

110230 cited in the International Search Report. As such, the special technical features

of the claimed invention are not found to define a contribution over prior art.

If Group I is elected, an election of species is required. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form

The species are as follows:

I-a Claims 6, 12, 13 – salts represented by formula V and VI

I-b Claim 10 – salts represented by formula V

a single general inventive concept under PCT Rule 13.1.

I-c Claim 11 – salts represented by formula VI

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims

are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The following claim(s) are generic: claims 1-5.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: the salts have different chemical compounds. The species are distinct because the compounds recite mutually exclusive characteristics of such species. In addition, these species are not obvious variants of each other based on the current record.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01. Any inquiry concerning this communication or earlier communications from the examiner should be

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directed to CYNTHIA LEE whose telephone number is (571)272-8699. The examiner can normally be reached on Monday-Friday 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Cynthia Lee/

/PATRICK RYAN/ Supervisory Patent Examiner, Art Unit 1795